Public Works (1906) Department.

23/7
RH

G.O., No. 780 } 781 } I

DATED 18.7. 1906.

100 copies of G.O.
4 / 23/2 copies of Estt with docket at the back for the G of I
20 copies of Estt for record
21/7/06

[Despatch Abstract.]

Thodanery distributary ~~taking off from the~~ from the Thodanery tank, Madura Dt.

An estimate, amounting to Rs 1389, for improving the —, sanctioned, and a copy of the Pros. ordered to be forwarded to the G of I for information.

=

Thodanery distributary ~~taking off from the~~ from the Thodanery tank, Madura Dt.

[P. W. 31. 300—12-5-06]

Indexed

Forwarding a copy of the Pros: sanctioning an estimate amounting to Rs 1389, for improving the —

99 G of I 07
Registered
19.7.06

Rcd 20/7/06
Delivered 20/7/06 7E9
18/7

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

IRRIGATION.
ACCOUNT.

Government of Madras.

PUBLIC WORKS DEPARTMENT.

Recd.	} 1906.	*Enclosures*	
Regd.		*Spare copies*	

G.O., Nos. 780, 781 I., 18th July 1906.

Thodanery Distributary from the Thodanery Tank, Periyar Project

Forwarding a copy of the Proceedings sanctioning an estimate, amounting to Rs. 1,389, for improving the —.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

Read—the following papers:—

I

From the Superintending Engineer, VI Circle, dated 4th May 1906, No. 261 C.E.

Enclosure.

Report to accompany the Estimate for improvements to Thodanery Distributary channel, Periyár works.

	RS.
Amount of estimate	1,135

This distributary channel, which takes off from the head sluice in Thodanery tank, is known as Thodanery distributary, and has an ayacut of 639 acres. As can be seen from the level sections enclosed, it is not capable of carrying an adequate supply to the ayacut depending on it. It is therefore proposed to repair and improve it as per plans and estimates accompanying.

The proposals made are as follow:—

(1) To regrade the channel, and to strengthen the banks, as per level sheets attached.

(2) To construct masonry or pipe sluices, as the case may be, at suitable sites, in place of the open cuts which are at present allowed in the channel, and which in consequence lead to wastage of water and diminution of supply at the tail end.

(3) To irrigate lands on either side of the distributary, without using dams, and to prevent retrogression of levels, two section walls are proposed.

(4) A drop of 4 feet will be constructed at 4,100 feet, *i.e.*, at C.S. No. 15 to prevent retrogression of levels.

(5) A regulator will be constructed at the tail end of the distributary to send an even supply to the several branches.

(6) An undertunnel is also proposed at 3,600 feet in the distributary to replace a temporary pipe culvert at the site of some cross drainage.

(7) Some additional land will have to be acquired and for this provision has been made in the estimate on information furnished by the Collector of Madura regarding the cost.

(8) Demarcating the land to be acquired. The rates provided in the estimate are the same as those sanctioned for similar works in the locality.

Estimate Form—Abstract—Classified.

Sub-head.	Names of works.	Amount of estimate for individual works.	Total of sub-heads.	Total for each canal or distributary.	Total of each main head.
1	2	3	4	5	6
	IMPERIAL.	RS.	RS.	RS.	RS.
	CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.				
	49. *Irrigation.*				
	Periyár Project.				
	Madura Division.				
	Open Capital Account.				
	I. Works.				
	3. Distributaries.				
	Unremunerative Works.				
	Improvements to Thodanery Distributary.				
B. Land ..	Compensation for land	30	30		
C. Works ..	1. Improvements to the head sluice	194			
	2. Constructing a 9″ pipe sluice at 1,940 feet, left bank	63			
	3. Constructing a 9″ pipe sluice at 1,940 feet, right bank	63			
	4. Constructing a section wall at 1,940 feet	35			
	5. Do. do. 2,900 feet	35			
	6. Constructing an undertunnel at 3,600 feet	145			
	7. Constructing a masonry sluice at 4,100 feet, left bank	65			
	8. Constructing a 6″ pipe sluice right bank ..	55			
	9. Constructing a 4′ drop at 4,100 feet	245			
	10. Constructing a regulator at 5,400 feet	200			
	Total ..	..	1,100		
O. Miscellaneous.	Demarcation stone	5	5		
	Total, I. Works	..	..	1,135	
	II. Establishment ..	..	..	254	
	Grand Total ..	..	..	1,389	

A. V. RAMALINGA AIYAR,
Executive Engineer, Madura Division.

II

Note by the Chief Engineer for Irrigation.

The Superintending Engineer, VI Circle, submits an estimate, amounting to Rs. 1,135, for improving the Thodanery distributary, which takes off from the Thodanery tank supplied by the 4th Branch channel, Periyár project. It is stated that the distributary is not capable of carrying an adequate supply for its ayacut of 639 acres. The following improvements are, therefore, proposed in addition to the widening of the channel and the raising of its banks, for which an estimate is stated to have been sanctioned separately by the Superintending Engineer :—

(1) Improving the head sluice.

(2) Constructing three pipe sluices and one masonry sluice in lieu of the existing open cuts which lead to considerable wastage of water.

(3) Constructing one pipe aqueduct, a drop and a regulator.

The length of the retaining wall in rear of the masonry sluice at C.S. No. 15 being found insufficient has been increased in this office from 5 feet to $8\frac{1}{2}$ feet to suit the earth-slopes of $1\frac{1}{2}$ to 1. This alteration does not affect the total amount of the estimate, which is recommended for sanction.

2. The work is classed as "unremunerative" and will probably be completed by 31st March 1907.

C. A. Smith,
Ag. Chief Engineer for Irrigation.

10th July 1906.

Order—No. 780 I., dated 18th July 1906.

The estimate, amounting to Rs. 1,135 (for "works") or Rs. 1,389 including the charge for establishment, for improving the Thodanery distributary taking off from the Thodanery tank, Periyár project, is sanctioned.

2. This sanction is registered as No. 99 I. of 1906–1907 and will expire on 31st March 1907.

3. Ordered that a copy of these Proceedings be forwarded to the Government of India for information.

[Here enter No. 781 I., dated 18th July 1906.]

(True Extract.)

C. A. Smith,
Ag. Joint Secretary to Government,
Irrigation Branch

To the Chief Engineer for Irrigation.
,, Superintending Engineer, VI Circle, with plans and estimate.
,, Examiner, Public Works Accounts.

Endorsement—No. 781 I., dated 18th July 1906.

Forwarded.

(By order.)

C. A. Smith,
Ag. Joint Secretary to Government,
Irrigation Branch.

Stock Form No. 141
10,000 -29-6-05.

PUBLIC WORKS DEPARTMENT.

CURRENT No. 2443

Received 7 5 1906.

ENCLOSURES. { Plans No. / Others No.

Registered 11 5 1906.

Total

SPARE COPIES.

Passed on by Registering Clerk ...

,, ,, U. R. Clerk ...

,, ,, Referencer ...

,, ,, Record Superintendent.

,, ,, Drafting Officer ...

Subject.

Improvements to Thodanery Channel. Forwarding Estimate with plans amounting Rs 1135 for the ——— ~~Submitting~~ for sanction.

No. 261 CE

Station, Trichinopoly. *Dated the* 4th May 1906.

From (Name) S. B. MURRAY Esquire.,

(Designation) Superintending Engineer, VI Circle.

To *The Chief Engineer* for Irrigation, ~~*The Secretary*~~ *to the Government of Madras,*

Public Works Department.

Sir,

Enclosures 11. { 1 Estt. / 10 Tra.

I have the honour to forward herewith an estimate, with the necessary plans, amounting to Rs. 1,135 for improvements to Thodanery Distributary ~~Distributary~~ a Channel connected with the 4th Branch Channel of the Periyar Project Works.

2. The necessity for the improvements proposed is described in the report attached to the estimate.

3. Though by the proposed improvements, no increase in revenue can be expected, yet they are required for - the full development of the Project, and the work is -- therefore classified as unremunerative.

4.

4. The work will probably be completed by the end of -- March 1907.

5. The estimate for the repairs to the Distributary Channel has been sanctioned by me.

I have the honour to be,

Sir,

Your most obedient servant,

Superintending Engineer,

VI Circle.

13
PWC 769618

-3

Report to accompany the estimate for Repairs and Improvements to Thodanery Distributary Channel, Perujar Works -

Amount of Estimate	Improvements Rs	~~1115~~ 1135
	Repairs Rs.	570
	Total Rs.	1685

CHIEF ENGINEER FOR IRRIGATION. 11 MAY 1906 2443

This distributary channel, which takes off from the head sluice in Thodanery tank, ~~and~~ is known as Thodanery Distributary, and has an ayacut of 639 acres ~~under it~~. As can be seen from the level sections enclosed, it is not capable of ~~sending~~ carrying an adequate supply to the ayacut depending on it. It is therefore proposed to repair and improve the ~~channel~~ same as per plans and estimates accompanying.

The proposals made are as follows:-

(1) To regrade the channel, and to strengthen the banks, as per level

level sheets attached.

(2) To construct masonry or pipe sluices, as the case may be, at suitable sites, in place of the ~~too many~~ open cuts which are at present allowed in the channel, and which in consequence lead to wastage of water and diminution of supply at the tail end.

(3) To irrigate lands on ~~the~~ either sides of the distributary, without using dams ~~damming up~~, and to prevent retrogression of levels, two section walls are proposed.

(4). A drop of 4-feet will be construct-ed at 4100 feet i.e. at Cs. No 15 to prevent retrogression of levels.

(5) A regulator will be constructed at the tail end of the distributary to send an even supply to the several branches.

(6) An undertunnel is also proposed at 3600 feet in the distributary to replace a temporary pipe culvert× at the ~~crossing of the~~ site of some cross drainage.

× This was not charged to Capital Acct

3.85

(7). ~~Necessary~~ Some additional land will have to be acquired and for ~~which~~ this provision has been made in the estimate on information ~~furnished~~ by the Collector of Madura regarding the cost ~~of land~~

(8) Demarcating the land to be acquired

The rates provided ~~for~~ in the estimate are ~~just~~ the same as those sanctioned for similar works in the locality.

A V Ramalinga Iyer

Executive Engineer

Madura Division.

2/10/05.

1-5-06

4

pwc 7699/d
23

ESTIMATE FORM.—Abstract—Classified.

3 W

Sub-head.	Names of Works.	Amount of Estimate for individual Works.	Total of Sub-heads.	Total for each Canal or Distributary.	Total of each Main head.	Remarks.
1	2	3	4	5	6	7
	Imperial.					
	Capital Expenditure not charged to Rev.					
	49 Irrigation ~~xxxxx~~ Madura Dt.					
	Periyar Project					
	Open Capital account.					
	1 Works.					
	3 Distributaries.					
	Unremunerative Works.					
	Improvements to Thodaneri distributary.					
B. Land	Compensation for land	30				
			30.			
C. Works.	1 Improvements to the Head sluice.	194 ~~203~~				
	2. Constructing a 9" pipe sluice at 1940 ft. Left bank.	63				
	3. Do. Right bank	63				
	4. Constructing a return wall at 1940.	35				
	5. Do. Do. 2900.	35				
	6. Constructing an under tunnel at 3600 feet	145 ~~130~~				
	7 Constructing a Masonry sluice at 4100 feet. L.B.	65				
	8 Do. Do. 6" pipe sluice R.B.	~~52~~ 55				
	9. Constructing a 4' Drop at 4100 feet	245 ~~240~~				
	Carried over	900 ~~886~~	30			

5

STATION,

Dated ________ 190 .

Executive Engineer.

5,000—12-12-01.

(E. N. 126.)

____________ CIRCLE.

DIVISION—

DISTRICT—

ESTIMATE FORM.—Abstract—Classified.

To accompany the Detailed Estimate No.

of 190 -190 for *

* Here enter the Name and Description of work in full.

ESTIMATE FORM.—Abstract—Classified.

Sub-head.	Names of Works.	Amount of Estimate for individual Works.	Total of Sub-heads.	Total for each Canal or Distributary.	Total of each Main head.	Remarks.
1	2	3	4	5	6	7
	Brought forward	~~886~~ 900	30.			
	10. Constructing a Regulator at 5200'	200 ~~194~~.				
	Total		~~1080~~ 1100			
6. Miscellaneous.	Demarcation Stone	5				
			5			
	Total 1 works.			~~1115~~ 1135		

Sanctioned in C.O. No. 8806 of 18.7

STATION, ______________ }

Dated ______________ 190 . }

5,000—12-12-01.

Executive Engineer.

Madura Division

(E. No. 126.)

_______________ CIRCLE.

DIVISION—

DISTRICT—

ESTIMATE FORM.—Abstract—Classified.

To accompany the Detailed Estimate No.

of 190 -190 for *

* Here enter the Name and Description of work in full.

PWC 7649/08

8/

PUBLIC WORKS DEPARTMENT.

Irrigation Branch.

From the Supg. Engr. VI circle No 261 CE d/ 4 May 1906

C No. 2443
11.5.06

D.E.S.

For orders if the estimate may be checked for sanction

A
7/5/06

Check est.e
[initials]

[initials]
11/5/06

C.E.S.

Why is a duty of 37 allowed in the estimate which does not I think agree with that usually taken for Periyar distributaries nor does it agree with Mullin's table either original or as modified

[initials]
9/7

The duty taken for "discharge to be provided" is approximately that of Mullins, the channel is designed to carry this as a maximum, it is made wide and shallow, presumably to command the lands when running considerably lower than F.S.L.

[initials]
10/7/06

Mullins we have the information here. S.E. should be asked to state on what principle the new distributaries are being designed for the Periyar as to duty etc. so that we have it on record & ready for use when going into the regarding question of Godavery & Kistna. I thought a major duty of 60 was being allowed for Periyar but the present estimate does not [illegible] [illegible] this

[initials]
10/7

[E. I. Form No. 42—600—23-8-04.]

9

Public Works Department,

Irrigation Branch.

Current No. 2443

Letter No. 261 C.E.

Dated 4-5-06

From The SE 6th circle (Mr. Murray)
Prepared by E.E. Madura (Mr. Ramalingam...)

NOTE by Technical Section.

Name of work. Improving the Thodaneery Channel of the Periyar Project Madura Dt.

Amount of Estimate Rs. 1135.

This is a distributary of the 4th Branch Chal, Periyar Project taking off from the head sluice in Thodaneery tank - It commands an area of 857 acres - The Estimate provides for

(1). Widening the Chal + raising its banks. Rs. 590
(2) Improving the head sluice at the head Rs. 194
(3). Constn. 3 pipe sluices + 1 masonry sluice Rs. 251
(4) - do - 1 pipe aqueduct to pass a large small drainage Rs. 165
(5) - do - 4' Drop. at 4100 ft. Rs. 26
(6) - do - Regulator at 5600 ft. Rs. 200
(7) - do - 2 section walls Rs. 70
(8) Compensation for land Rs. 35
Total. Rs. 1135

It is stated that the Estimate for item No 1 has been sanctioned by the SE under Repairs. The Estimates of the other items have been checked. The length of the retaining wall in rear of the masonry sluice at C.S. 2015 being insufficient has been lengthened from 5 to 8½ ft to suit earth slopes of E tol-. There is no alteration in the total amount of the Estimate.

what is called F.S.L in the chl is really M.W.L as the bank is only 1½ ft above it

JWGS
8/7.

Tas
2/7/06.

PROCEEDINGS OF THE MADRAS GOVERNMENT

E. I. Form No. 1.

PUBLIC WORKS DEPARTMENT,

IRRIGATION BRANCH.

CURRENT No. 7699
PASSED ON BY
R. C.
U. R. C.
REF.
R. K.
D. O.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

From the Supg. Engineer, VI Circle, No.261 C.E., dated 4th May 1906.

Classified abstract estimate amounting to ₹1389.

Note by the Chief Engineer
for Irrigation.

The Supg. Engineer, VI Circle, submits an estimate amounting to -- ₹1,135 for improving the Thodanery distributary, which takes off from the Thodanery tank supplied by the 4th branch channel, Periyar Project. It is stated that the distributary is not capable of carrying an adequate supply for its ayacut of 639 acres. The following improvements are, therefore, proposed in addition to the widening of the channel and the raising of its banks, for which an estimate is stated to have been sanctioned separately by the Supg. Engineer:-

(1) Improving the head sluice.

(2) Constructing 3 pipe sluices and 1 masonry sluice in lieu of the existing open cuts which lead to considerable wastage of water.

(3) Constructing one pipe aqueduct, a drop and a regulator.

The length of the retaining wall

in rear of the masonry sluice at C.S. No. 15 being found insufficient has been increased in this office from 5 to 8½' to suit the earth-slopes of 1½ : 1. This alteration does not affect the total amount of the estimate, which is recommended for sanction.

2. The work is classed as "unremunerative" and will probably be completed by 31st March 1907.

Order. No 780 I.T.I. 18.7.06

The estimate amounting to ~~Rs 1,389~~ Rs 1135 for "works" or Rs 1389 including the charge for establ; for improving the Thodanery distributary taking off from the Thodanery tank Ramnad District is sanctioned.

2. This sanction is registered as No. 99 — I of 1906-07 and will expire on 31-3-07.

3. Ordered that a copy of these Proceedings be forwarded to the Government of India for information.

DESPATCHED
6 AUG 1906

Endorsement. 781 I.T.I. 18/7/06

Forwarded.

[signature]
D.S.
8/7/06.

[signature] 10.7.06

To

The Chief Engineer for Irrign.

,, Supg. Engineer, VI Circle. with plans & est.

,, Examiner, P.W. Accounts.

D 3/8/06

[signature] 6.7.06

DESPATCHED
2 AUG 1906